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Patente und Lizenzen

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(54) Optical system for a hematology analytical instrument

(57) An optical illuminator assembly for an analytical instrument, such as a clinical hematology or a flow cytometer instrument, and method of aligning the components of the illuminator assembly (130,381) and orienting the illuminator assembly (130,381). The illuminator assembly (130,381) includes a plurality of optical components, such as a laser source (131), e.g., a laser diode (131), optionally a spatial filter (185,190,195), a beam shaping aperture (201A,220A), and a focusing lens (220,387b). The optical components are mounted in or to a housing (121A,3020) and

are internally oriented with respect to the housing (121A,3020) to produce a focussed laser beam output. The housing is in turn mounted on an alignment mechanism (3040) which can move the focussed beam in four degrees of freedom, thereby to direct the focussed beam to a particular location. Thus, a factory alignment and a low cost prealigned optical illuminator assembly is obtained, which can be easily oriented for use in an instrument.

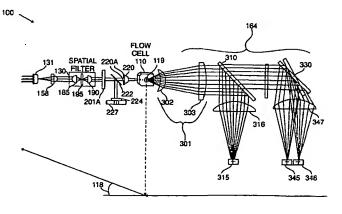


FIG. 1



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